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Document Number 18

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File: JPAB

Aug 25, 1989

PUB-NO: JP401212699A

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TITLE: HEAT CONTROL DEVICE FOR ARTIFICIAL SATELLITE

PUBN-DATE: August 25, 1989

INVENTOR-INFORMATION:

NAME

OKAMOTO, AKIRA

ASSIGNEE-INFORMATION:

NAME COUNTRY

NEC CORP N/A

APPL-NO: JP63035931

APPL-DATE: February 17, 1988

INT-CL (IPC): B64G 1/50

ABSTRACT:

PURPOSE: To improve a radiation effect, by a method wherein a phase transition material having a low infrared radiation factor in a range having temperature higher than a transition temperature at which phase transition occurs and high infrared radiation factor in a range having temperature lower than the transition temperature is situated on the surfaces of a loading device and a heat sink to effect heat exchange.

CONSTITUTION: Each surface of the housing of an artificial satellite forms a heat sink 6, and a heat control device 7 is adhered on the inner surface of the heat sink. In a phase transition material, phase transition occurs at a transition temperature, and a metallic nature is created in an area having temperature higher than a transition temperature to increase a radiation factor, and an insulating substance like nature is created in an area having temperature lower than the transition temperature to increase a radiation factor. The heat control device 7 is formed such that vanadium oxide being the phase transition material is formed in a filmy manner. A loading device 8 is positioned in the heat control device 7 in a manner that the whole surface thereof is positioned facing the heat control device 7. This constitution suppresses inflow of heat from the heat sink 6 on the sun 9 side, and performs high-efficient dissipation of heat to the heat sink 6 on the shade side located on the opposite side in a 180° arc.

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